

06/06/2005

10/805,390

(FILE 'HOME' ENTERED AT 13:58:46 ON 06 JUN 2005)

FILE 'JAPIO, INPADOC' ENTERED AT 13:58:57 ON 06 JUN 2005

E JP2003-127906/AP, PRN

L1

3 S E3-E4

L1 ANSWER 1 OF 3 JAPIO (C) 2005 JPO on STN  
AN 2004-333730 JAPIO  
TI IMAGE FORMING APPARATUS AND IMAGE FORMING METHOD  
IN SHIMADA TOMOAKI  
PA KONICA MINOLTA BUSINESS TECHNOLOGIES INC  
PI JP 2004333730 A 20041125 Heisei  
AI JP 2003-127906 (JP2003127906 Heisei) 20030506  
PRAI JP 2003-12790620030506  
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2004  
AB PROBLEM TO BE SOLVED: To provide an image forming apparatus and an image forming method, whereby replacement of a toner cartridge for each color is facilitated, a desired print is speedily obtained and, furthermore, running costs can be reduced.  
SOLUTION: In case that a printing instruction is received when a toner cartridge that needs to be replaced is moved to a replacement position in order to be replaced (Yes in S108), a printer control part exerts control to move each toner cartridge to a position that allows printing. After instructed printing is finished (S109), control is performed so that the toner cartridge to be replaced is returned to the replacement position (S102 through S104).  
COPYRIGHT: (C)2005, JPO&NCIPI  
AN 2004-333730 JAPIO  
TI IMAGE FORMING APPARATUS AND IMAGE FORMING METHOD  
IN SHIMADA TOMOAKI  
PA KONICA MINOLTA BUSINESS TECHNOLOGIES INC  
PI JP 2004333730 A 20041125 Heisei  
AI JP 2003-127906 (JP2003127906 Heisei) 20030506  
JP 2003-12790620030506  
SO PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 2004  
IC ICM G03G015-01  
ICS G03G015-08; G03G021-00  
AB PROBLEM TO BE SOLVED: To provide an image forming apparatus and an image forming method, whereby replacement of a toner cartridge for each color is facilitated, a desired print is speedily obtained and, furthermore, running costs can be reduced.  
SOLUTION: In case that a printing instruction is received when a toner cartridge that needs to be replaced is moved to a replacement position in order to be replaced (Yes in S108), a printer control part exerts control to move each toner cartridge to a position that allows printing. After instructed printing is finished (S109), control is performed so that the toner cartridge to be replaced is returned to the replacement position (S102 through S104).  
COPYRIGHT: (C)2005, JPO&NCIPI

L1 ANSWER 2 OF 3 INPADOC COPYRIGHT 2005 EPO on STN

## LEVEL 1

AN 251655317 INPADOC ED 20041230 EW 200453 UP 20050317 UW 200511  
TI IMAGE FORMING APPARATUS AND IMAGE FORMING METHOD.  
IN SHIMADA TOMOAKI  
INS SHIMADA TOMOAKI  
PA KONICA MINOLTA BUSINESS TECHNOLOGIES INC  
PAS KONICA MINOLTA BUSINESS TECHNO  
TL English  
DT Patent  
PIT JPA2 DOCUMENT LAID OPEN TO PUBLIC INSPECTION  
PI JP 2004333730 A2 20041125

06/06/2005

10/805,390

AI JP 2003-127906 A 20030506  
PRAI JP 2003-127906 A 20030506 (EDPR 20041125)

LEVEL 1

AN 251655317 INPADOC ED 20041230 EW 200453 UP 20050317 UW 200511  
TI IMAGE FORMING APPARATUS AND IMAGE FORMING METHOD.  
IN SHIMADA TOMOAKI  
INS SHIMADA TOMOAKI  
PA KONICA MINOLTA BUSINESS TECHNOLOGIES INC  
PAS KONICA MINOLTA BUSINESS TECHNO  
TL English  
DT Patent  
PIT JPA2 DOCUMENT LAID OPEN TO PUBLIC INSPECTION  
PI JP 2004333730 A2 20041125  
AI JP 2003-127906 A 20030506  
PRAI JP 2003-127906 A 20030506 (EDPR 20041125)  
ICM (7) G03G015-01  
ICS (7) G03G015-08; (7) G03G021-00

L1 ANSWER 3 OF 3 INPADOC COPYRIGHT 2005 EPO on STN

LEVEL 1

AN 249187159 INPADOC ED 20041125 EW 200448 UP 20050107 UW 200501  
TI Image forming device, image forming method, and program product.  
IN SHIMADA TOMOAKI  
INS SHIMADA TOMOAKI  
INA JP  
PA KONICA MINOLTA BUSINESS TECHNOLOGIES, INC.  
PAS KONICA MINOLTA BUSINESS TECHNO  
PAA JP  
TL English  
DT Patent  
PIT USAA PATENT APPLICATION PUBLICATION (PRE-GRANT)  
PI US 2004223774 AA 20041111  
AI US 2004-805390 A 20040322  
PRAI JP 2003-127906 A 20030506 (EDPR 20041125)  
OSDW 2004-831805  
AB If a printing instruction is received when a toner cartridge that needs to be replaced has been moved to the replacement position and is ready for replacement, the control unit of a printer controls each toner cartridge to move to a location where printing is possible and controls the toner cartridge that needs to be replaced to move back to the replacement position after the specified printing is completed.

LEVEL 1

AN 249187159 INPADOC ED 20041125 EW 200448 UP 20050107 UW 200501  
TI Image forming device, image forming method, and program product.  
IN SHIMADA TOMOAKI  
INS SHIMADA TOMOAKI  
INA JP  
PA KONICA MINOLTA BUSINESS TECHNOLOGIES, INC.  
PAS KONICA MINOLTA BUSINESS TECHNO  
PAA JP  
TL English  
DT Patent  
PIT USAA PATENT APPLICATION PUBLICATION (PRE-GRANT)  
PI US 2004223774 AA 20041111  
AI US 2004-805390 A 20040322

06/06/2005

10/805,390

PRAI JP 2003-127906  
OSDW 2004-831805  
ICM (7) G03G015-08  
NCL 399 27

A 20030506

(EDPR 20041125)

## Query/Command : HIS

File : PLUSPAT

## SS Results

1	2	(1) ..FAM US20040223774/PN
2	1	..CITF US20040223774/PN
3	1	..CITB US20040223774/PN


Search statement 4

*FAMILY  
CITATION  
SEARCH*

## Query/Command : PRT MAX SET


---

1 / 2 PLUSPAT - ©QUESTEL-ORBIT - image

**PN** -  JP2004333730 A 20041125 [JP2004333730]  
**TI** - (A) IMAGE FORMING APPARATUS AND IMAGE FORMING METHOD  
**PA** - (A) KONICA MINOLTA BUSINESS TECHNO  
**IN** - (A) SHIMADA TOMOAKI  
**AP** - JP2003127906 20030506 [2003JP-0127906]  
**PR** - JP2003127906 20030506 [2003JP-0127906]  
**IC** - (A) G03G-015/01 G03G-015/08 G03G-021/00  
**STG** - (A) Doc. Laid open to publ. Inspec.  
**AB** - PROBLEM TO BE SOLVED: To provide an image forming apparatus and an image forming method, whereby replacement of a toner cartridge for each color is facilitated, a desired print is speedily obtained and, furthermore, running costs can be reduced.  
SOLUTION: In case that a printing instruction is received when a toner cartridge that needs to be replaced is moved to a replacement position in order to be replaced (Yes in S108), a printer control part exerts control to move each toner cartridge to a position that allows printing. After instructed printing is finished (S109), control is performed so that the toner cartridge to be replaced is returned to the replacement position (S102 through S104).  
COPYRIGHT: (C)2005,JPO&NCIPI  
**UP** - 2004-52

---

2 / 2 PLUSPAT - ©QUESTEL-ORBIT - image

**PN** -  US2004223774 A1 20041111 [US20040223774]  
**TI** - (A1) Image forming device, image forming method, and program product  
**PA** - (A1) KONICA MINOLTA BUSINESS TECHNO (JP)  
**PA0** - Konica Minolta Business Technologies, Inc.; Chiyoda-ku, [JP]  
**IN** - (A1) SHIMADA TOMOAKI (JP)  
**AP** - US80539004 20040322 [2004US-0805390]  
**PR** - JP2003127906 20030506 [2003JP-0127906]  
**IC** - (A1) G03G-015/08  
**PCL** - ORIGINAL (O) : 399027000  
**DT** - Basic  
**STG** - (A1) Utility Patent Application published on or after January 2, 2001  
**AB** - If a printing instruction is received when a toner cartridge that needs to be replaced has been moved to the replacement position and is ready for replacement, the control unit of a printer controls each toner cartridge to move to a location where printing is possible and controls the toner cartridge that needs to be replaced to move back to the replacement position after the specified printing is completed.  
**UP** - 2004-46

## SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1951-2005/Jun W1  
(c) format only 2005 The Dialog Corp.

File 2:INSPEC 1969-2005/May W5  
(c) 2005 Institution of Electrical Engineers

File 5:Biosis Previews(R) 1969-2005/May W5  
(c) 2005 BIOSIS

File 6:NTIS 1964-2005/May W5  
(c) 2005 NTIS, Intl Cpyrght All Rights Res

File 8:Ei Compendex(R) 1970-2005/May W5  
(c) 2005 Elsevier Eng. Info. Inc.

File 73:EMBASE 1974-2005/May W5  
(c) 2005 Elsevier Science B.V.

File 987:TULSA (Petroleum Abs) 1965-2005/May W5  
(c) 2005 The University of Tulsa

File 94:JICST-EPlus 1985-2005/Apr W3  
(c) 2005 Japan Science and Tech Corp(JST)

File 35:Dissertation Abs Online 1861-2005/May  
(c) 2005 ProQuest Info&Learning

File 144:Pascal 1973-2005/May W4  
(c) 2005 INIST/CNRS

File 105:AESIS 1851-2001/Jul  
(c) 2001 Australian Mineral Foundation Inc

\*File 105: This file is closed (no updates)

File 99:Wilson Appl. Sci & Tech Abs 1983-2005/May  
(c) 2005 The HW Wilson Co.

File 58:GeoArchive 1974-2005/Mar  
(c) 2005 Geosystems

File 34:SciSearch(R) Cited Ref Sci 1990-2005/May W5  
(c) 2005 Inst for Sci Info

File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec  
(c) 1998 Inst for Sci Info

File 292:GEOBASE(TM) 1980-2005/May B1  
(c) 2005 Elsevier Science Ltd.

File 89:GeoRef 1785-2005/May B2  
(c) 2005 American Geological Institute

\*File 89: Please see HELP ALERTALL for new Alert frequency and price. Please see HELP RATES 89 for new Academic Subscriber rates.

File 65:Inside Conferences 1993-2005/Jun W1  
(c) 2005 BLDSC all rts. reserv.

File 350:Derwent WPIX 1963-2005/UD,UM &UP=200535  
(c) 2005 Thomson Derwent

\*File 350: For more current information, include File 331 in your search. Enter HELP NEWS 331 for details.

File 347:JAPIO Nov 1976-2005/Jan(Updated 050506)  
(c) 2005 JPO & JAPIO

Set	Items	Description
S1	20126	AU=(SHIMADA, T? OR SHIMADA T?)
S2	77	S1 AND IMAG?(2N) (FORMING OR FORM OR FORMED OR FORMATION)
S3	4	S2 AND TONER(2N) CARTRIDGE? ?
S4	4	RD (unique items)
S5	73	S2 NOT S3
S6	8	S5 AND IC=(G03G-015/01 OR G03G-015/08 OR G03G-021/00)
S7	8	RD (unique items)
S8	65	S5 NOT S6
S9	0	S8 AND (PRINT? OR TONER OR CARTRIDGE? ?) (2N) (INSTRUCTION? ? OR POSITION? ?)
S10	371730	IMAG?(2N) (FORMING OR FORM OR FORMED OR FORMATION)
S11	4735	TONER(3N) CARTRIDGE? ?
S12	673260	(MONITOR? OR MEASUR? OR TEST? OR CHECK? OR EXAMIN? OR ANALYS? OR ANALYZ? OR VERIF? OR IDENTIF? OR DETECT? OR SENSE? OR SENSING? OR INSPECT? OR ESTIMAT? OR CONTROL? OR DRIVING OR RECEIV?) (2N) UNIT? ?
S13	155377	(REPLAC? OR CHANG? OR MOVE??? OR MOVING) (2N) (TONER OR CARTRIDGE? ? OR POSITION? ?)
S14	590	REPLACEMENT?(2N) PORTION? ?
S15	26008	(PRINT? OR TONER OR CARTRIDGE? ?) (2N) (INSTRUCTION? ? OR POSITION? ?)
S16	135808	IC=(G03G-015/01 OR G03G-015/08 OR G03G-021/00)
S17	2205	S10 AND S11
S18	1920	S17 AND S16
S19	99	S18 AND S12
S20	13	S19 AND S13
S21	13	RD (unique items)
S22	86	S19 NOT S20
S23	0	S22 AND S14
S24	8	S22 AND S15
S25	8	RD (unique items)
S26	78	S22 NOT S24
S27	0	S26 AND INSTRUCTION?
S28	13	S26 AND POSITION?
S29	13	RD (unique items)
S30	65	S26 NOT S28
S31	27	S30 AND DETECT?
S32	27	RD (unique items)
S33	0	S32 AND REPLAC?(2N) (TONER? ? OR CARTRIDGE? ?)
S34	0	S32 AND REPLAC?(2N) POSITION?
S35	0	S32 AND REPLAC?
S36	27	S32